TM 11-6625-602-20P

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE

REPAIR PARTS

AND SPECIAL TOOLS LISTS

FOR

TEST SETS, TELEPHONE AN/USM-181 AND AN/USM-181A (NSN 6625-00-740-0344)

HEADQUARTERS, DEPARTMENT OF THE ARMY
APRIL 1977

TECHNICAL MANUAL
No. 11-6625-602-20P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, *12 April 1977*

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AN/USM-181 AND AN/USM-181A

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Current as of 15 December 1976

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*This manual supersedes so much of TM 11-6625-602-12, 28 September 1964, including Change 2, 17 December 1965, as pertains to repair parts and special tools lists.

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SECTION I

INTRODUCTION

1. Scope

This manual lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational maintenance of the AN/USM-181 and AN/USM-181A. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric seeuence, with the parts in each group listed in figure and item number sequence.

b. Section III. Special Tools List. Not applicable.

c. Section IV. National Stock Number and Part Number Index. A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list, in alphameric sequence, of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns

a. Illustration. This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illuftration on which the item is shown.

(2) *Item number.* The number used to identify item called out in the illustration.

b. Source, Maintenance, and Recoverability (SMR) Codes.

(1) *Source code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	*Definition*
PA	Item procured and stocked for anticipated or known usage.
XD	A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA and aircraft support items as restricted by AR 700-42.

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(*a*) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code	*Application/Explanation*
O	Support item is removed, replaced, used at the organizational level.

(*b*) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	*Application/Explanation*
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
H	The lowest maintenance level capable of complete repair of the support item is the general support level.
Z	Nonreparable. No repair is authorized.

(3) *Recoverability code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The

recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability codes	*Definition*
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
O	Reparable item. When uneconomically reparable, condemn and dispose at organizational level.
H	Reparable item. When uneconomically reparable, condemn and dispose at the general support level.

c. National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawing, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

4. Special Information

a. Usable on codes are shown in the description column. Uncoded items are applicable to all models. Identification of the usable on codes used in this publication are:

Code	*Used on*
B6M	AN/USM-181
AG9	AN/USM-181A

b. The following publication pertains to the AN/USM-181 and AN/USM-181A and its components:

TM 11-6625-602-12, Test Set, Telephone AN/USM-181 and Hewlett-Packard Model 3550B

c. The illustrations in this manual are identical to those published in TM 11-6625-602-40P. Only those parts assigned the third position SMR maintenance code "C" or "O" are listed in the tabular listing; therefore, there may be a break in the item number sequence. Only illustrations containing organizational authorized items appear in this manual.

5. How to Locate Repair Parts

a. When National stock number or part number is unknown.

(1) *First.* Using the table of contents, determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the functional group to which the item belongs.

(3) *Third.* Identify the item on the illustration and note the illustration figure and item number of the item.

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number noted on the illustration.

b. When National stock number or part number is known.

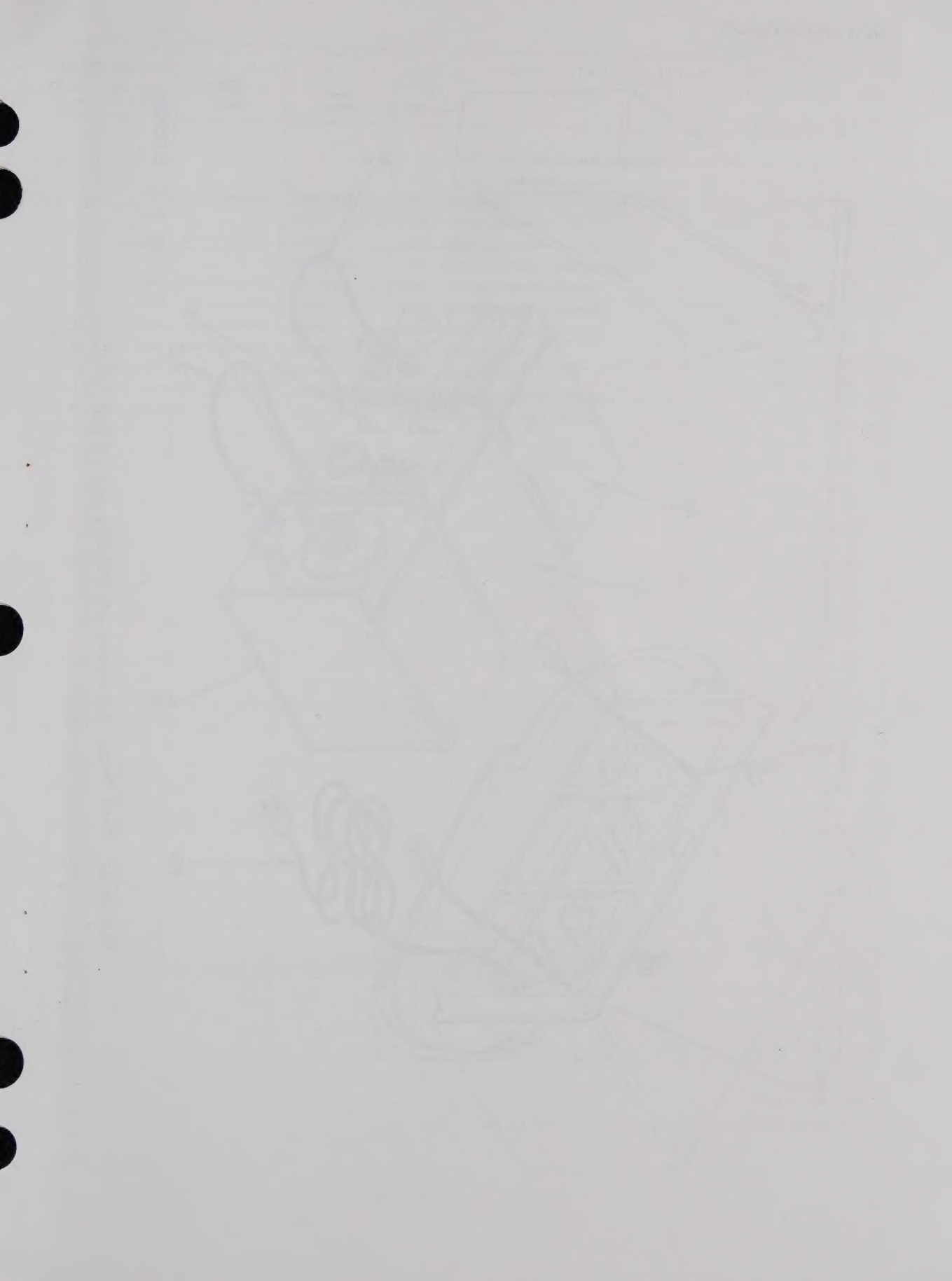
(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* After finding the figure and item number, locate the figure and item number in the repair parts list.

6. Abbreviations

Not applicable.

(Next printed page is 4)



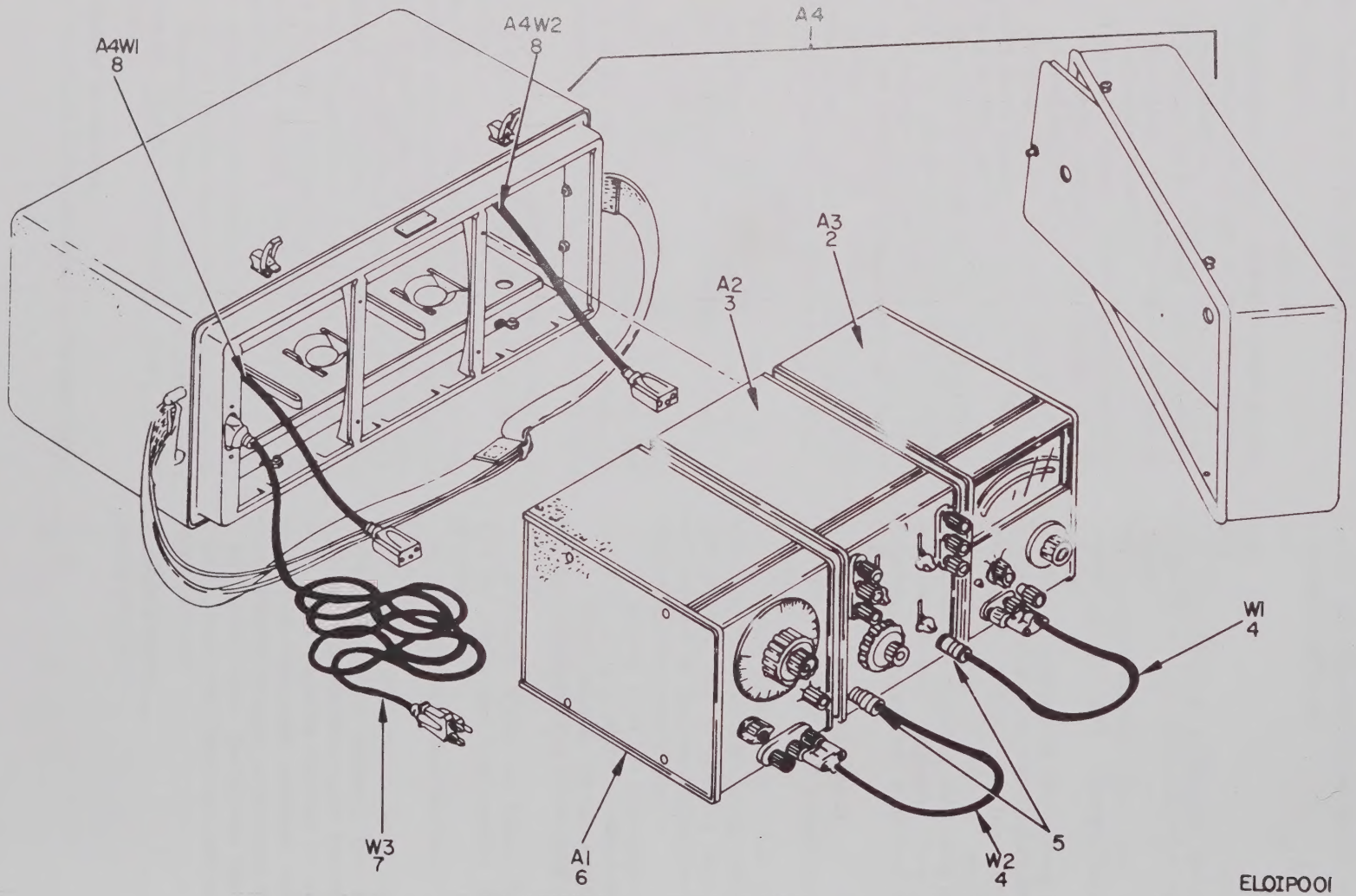


Figure 1. Test Sets, Telephone AN/USM-181 and AN/USM-181A.

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION / USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 TEST SET,TELEPHONE AN/USM-181 AND AN/USM-181A		
1	1	PAOHH	6625-00-965-1533	CY4071USM181	80058	CASE,TEST SET AG9	EA	1
1	2	XDOHH		ME26OAU	80058	VOLTMETER,ELECTRONIC AG9	EA	1
1	2	PAOHH	6625-00-965-1534	ME26OU	80058	VOLTMETER,ELECTRONIC B6M	EA	1
1	3	XDOHH		CN947AUSM181	80058	ATTENUATOR,IMPEDANCE MATCHING AG9	EA	1
1	3	PAOHH	6625-00-763-2390	CN947USM181	80058	ATTENUATOR,IMPEDANCE MATCHING B6M	EA	1
1	4	PAOOO	5995-00-764-3646	CG3566U	80058	CABLE ASSEMBLY,RADIO FREQUENCY AG9	EA	2
1	4	PAOOO	5995-00-985-8160	CG2723U	80058	CABLE ASSEMBLY,RADIO FREQUENCY B6M	EA	2
1	6	PAOHH	6625-00-965-1532	SG543AU	80058	GENERATOR,SIGNAL AG9	EA	1
1	6	XDOHH		SG543U	80058	GENERATOR,SIGNAL B6M	EA	1
1	7	PAOOO	5995-00-995-9822	CX903U	80058	CABLE ASSEMBLY,POWER ELECTRICAL	EA	1
1	8	XDOOO		CX9031U	80058	CABLE ASSEMBLY,POWER ELECTRICAL	EA	1

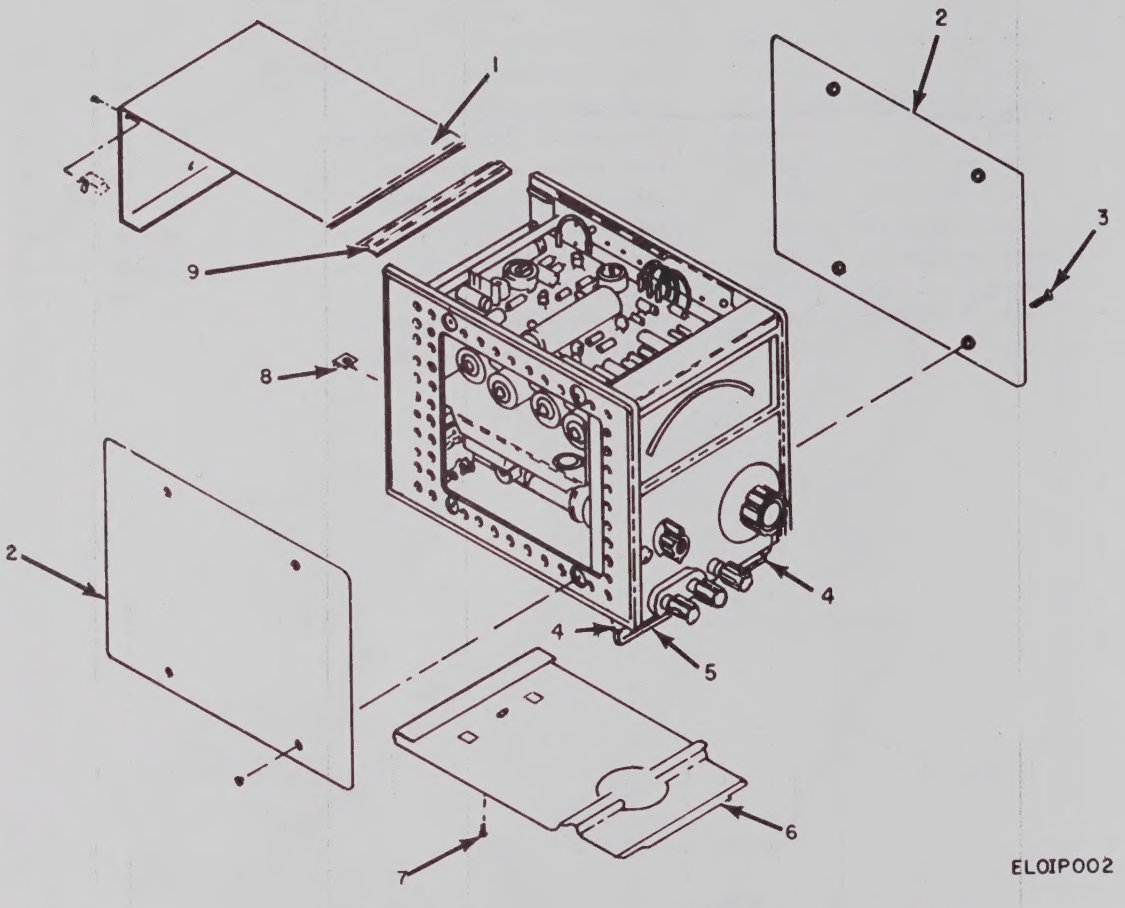


Figure 2. Voltmeter, Electronic ME-260/U or ME-260A/U A3.

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 01 VOLTMETER,ELECTRONIC ME-260/U OR ME-260A/U A3		
2	1	XDOZZ		5060-0705	28480	COVER,TOP	EA	1
2	2	XDOZZ		5C00-0702	28480	COVER,SIDE	EA	2
2	3	PAOZZ	5305-00-957-6265	MS35190-234	96906	SCREW,MACHINE	EA	8
2	6	XDOZZ		5000-0710	28480	COVER,BOTTOM	EA	1
2	7	PAOZZ	5305-00-059-4550	MS35190-235	96906	SCREW,MACHINE	EA	1
2	8	XDOZZ		C8020-632-24B	78553	NUT,SHEET SPRING	EA	1
2	9	XDOZZ		4320-0011	28480	WEATHER STRIP	EA	9

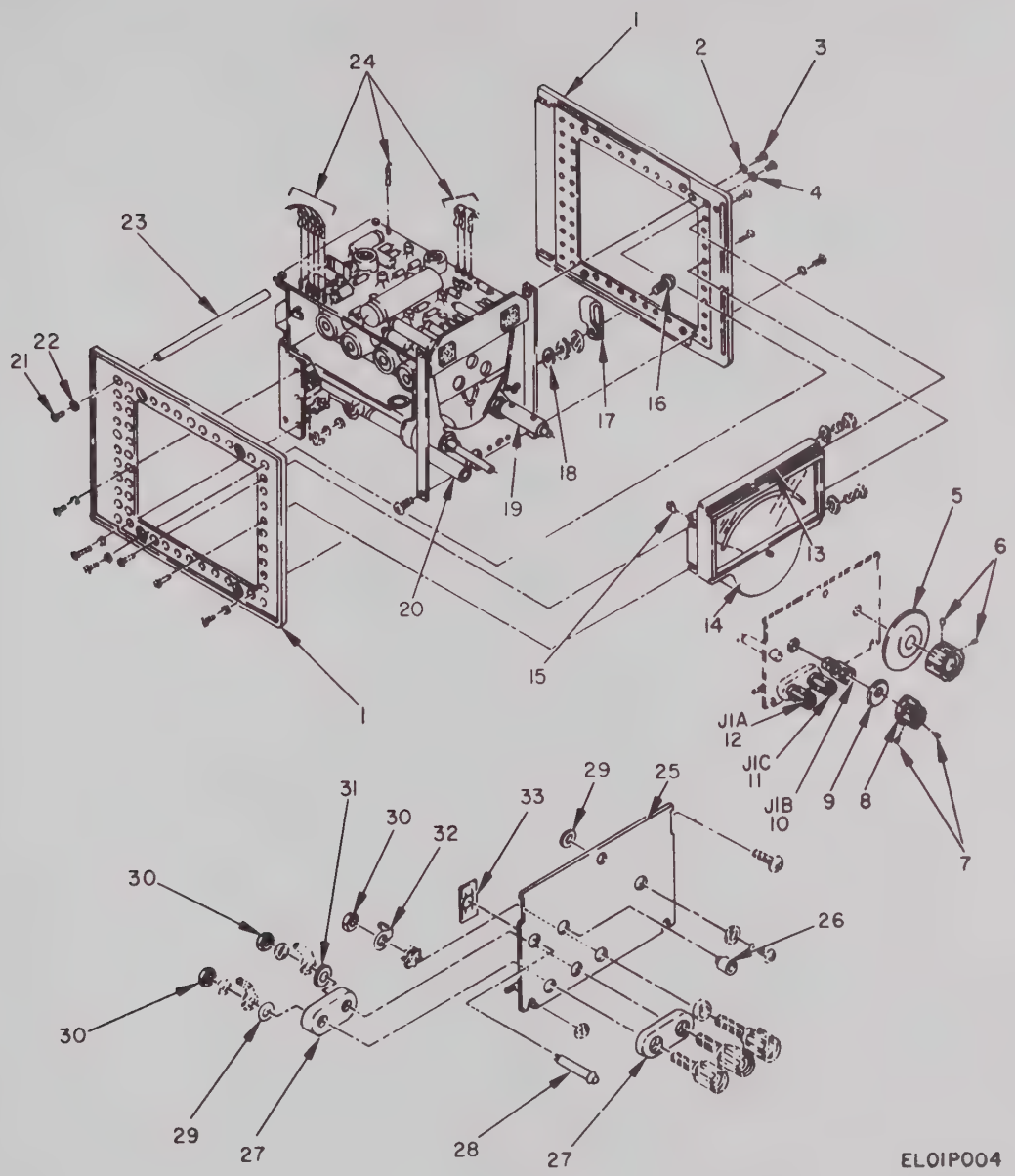


Figure 3. Voltmeter, Electronic ME-260/U or ME-260A/U A3, Front Panel Assembly.

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
3	6	XDOZZ	5305-00-719-5336	MS51963-33	96906	SETSCREW	EA	2
3	7	PAOZZ	5305-00-719-5342	MS51963-34	96906	SETSCREW	EA	2
3	8	PAOZZ	5355-00-760-3248	0370-0087	28480	KNOB	EA	1

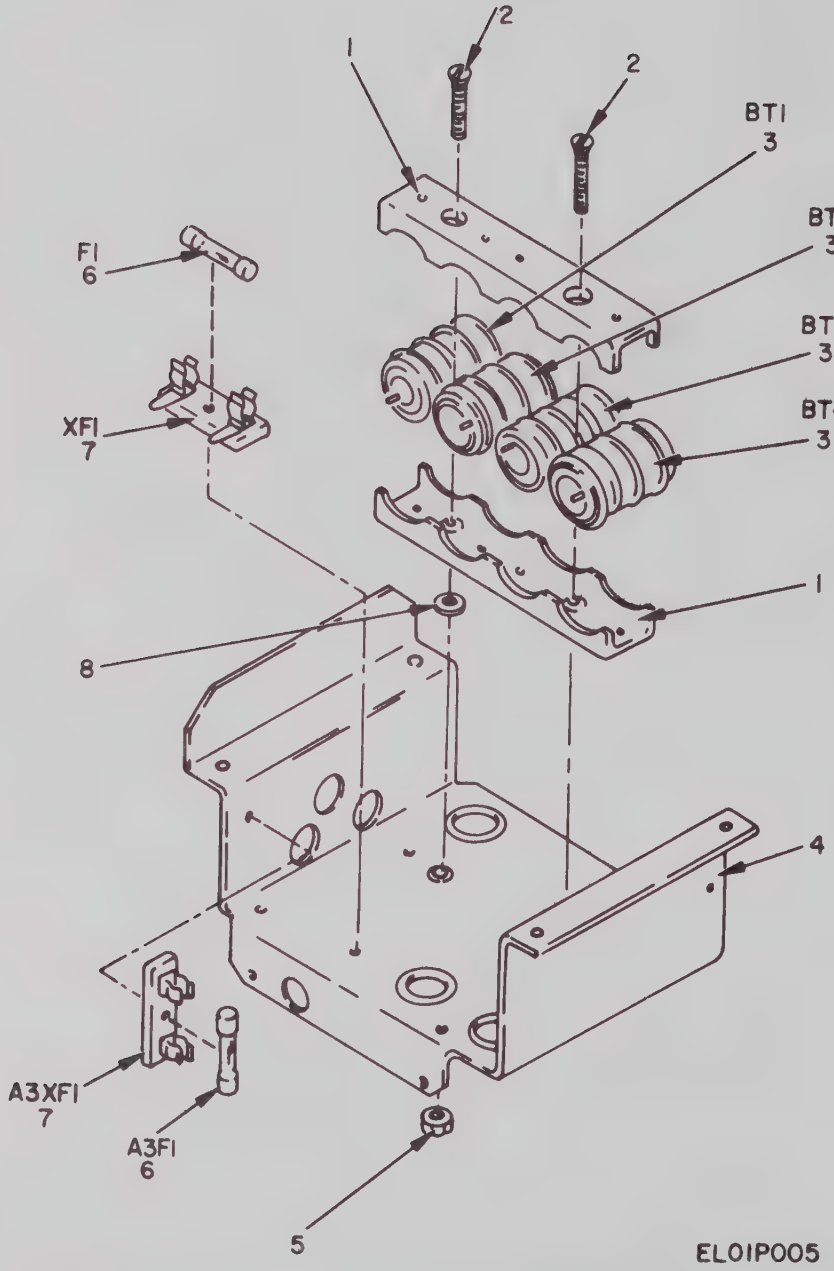


Figure 4. Voltmeter, Electronic ME-260/U or ME-260A/U A3, Voltmeter Electrical Equipment Chassis.

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
4	1	XDOZZ	6135-00-851-0857	5040-0615	28480	RETAINER,BATTERY	EA	2
4	2	XDOZZ		2370-0010	28480	SCREW,MACHINE	EA	2
4	3	XDOZZ		5B225-6V	28480	BATTERY,NICKEL CADMIUM	EA	4
4	5	XDOZZ	5310-00-934-9761	MS35649-264	96906	NUT,PLAIN,HEXAGON	EA	2
4	6	PAOZZ	5920-00-142-4837	312-062	75915	FUSE,CARTRIDGE	EA	2

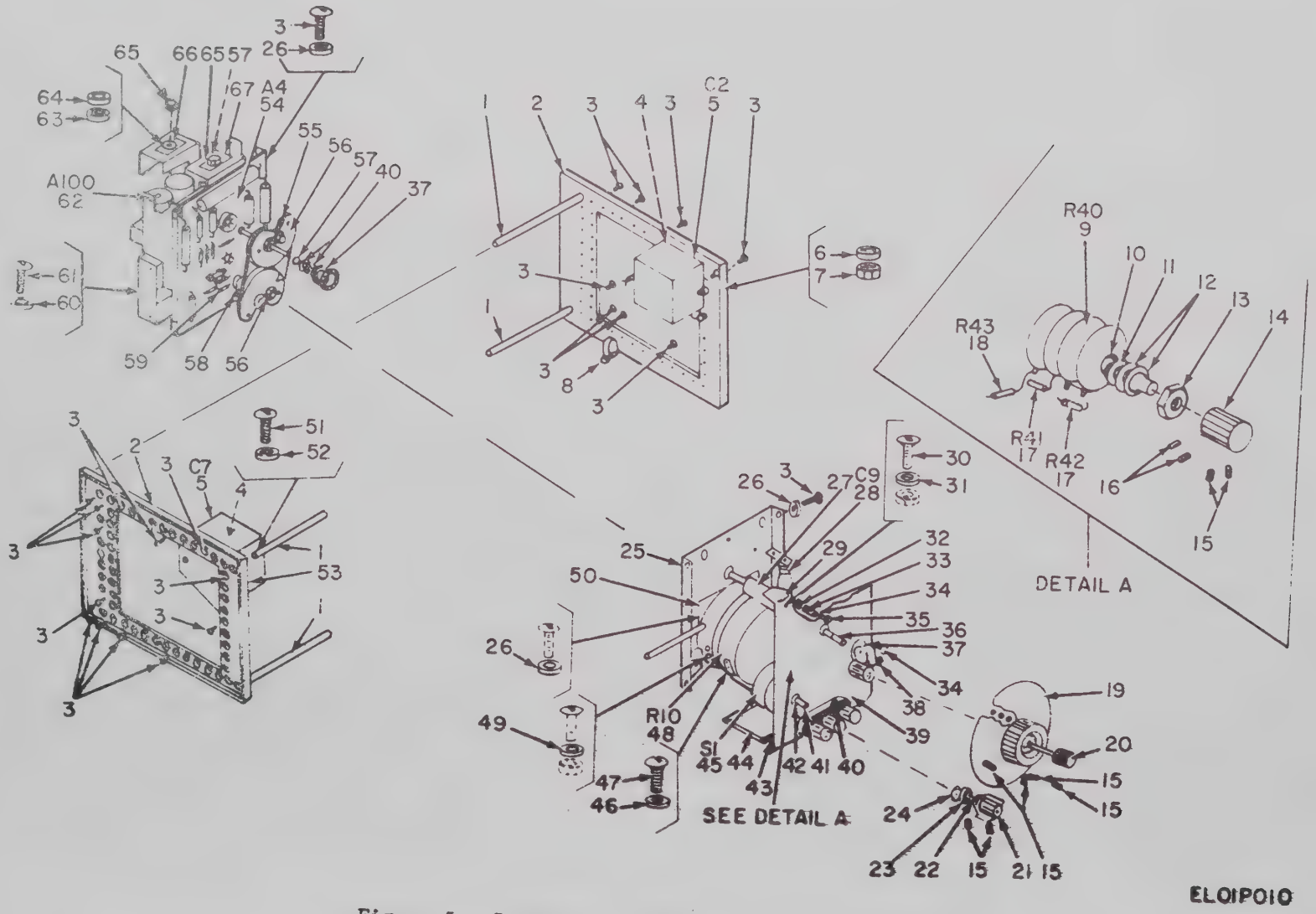


Figure 5. Generator, Signal SG-543/U or SG-543A/U A1.

(1) ILLUSTRATION (a) FIG NO	(1) ILLUSTRATION (b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION / USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 02 GENERATOR,SIGNAL SG-543/U OR SG-543A/U A1		
5	14	PAOZZ	5355-00-809-9329	0370-0084	28480	KNOB	EA	1
5	15	PAOZZ	5305-00-719-5330	MS51963-21	96906	SETSCREW	EA	2
5	16	PAOZZ	5305-00-719-5336	MS51963-33	96906	SETSCREW	EA	2
5	19	PAOZZ	5355-00-764-2927	204B40B	28480	DIAL,SCALE	EA	1
		PAOZZ	5355-00-965-4391	0370-0062	28480	KNOB	EA	1
		PAOZZ	5355-00-760-3243	0370-0087	28480	KNOB	EA	1

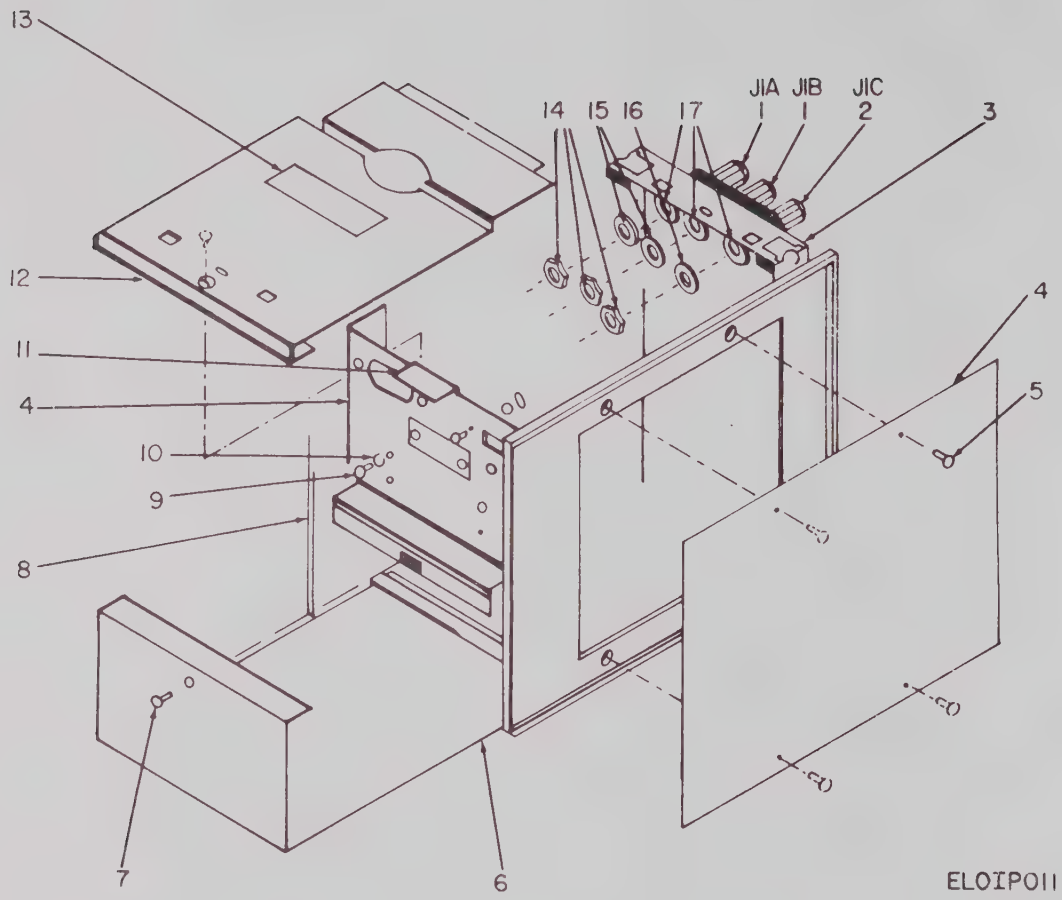


Figure 6. Generator, Signal SG-543/U or SG-543A/U A1, Top View.

(1) ILLUSTRATION (a) FIG NO	(1) ILLUSTRATION (b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
6	4	XDOZZ		5000-0702	28480	COVER,SIDE	EA	
6	5	XDOZZ		2370-0012	28480	SCREW,MACHINE B6M	EA	
6	5	XDOZZ	5305-00-957-6265	MS35190-234	96906	SCREW,MACHINE AG9	EA	
6	6	XDOZZ		5060-0705	28480	COVER,TOP	EA	
6	7	XDOZZ	5305-00-174-1167	AN507-632-5	88044	SCREW,MACHINE B6M	EA	
6	7	XDOZZ	5305-00-059-4550	MS35190-235	96906	SCREW,MACHINE AG9	EA	
6	8	XDOZZ		204B2B	28480	PANEL,REAR	EA	
6	9	XDOZZ	5305-00-059-4553	MS [illegible]-238	96906	SCREW,MACHINE	EA	
6	10	XDOZZ	5310-00-472-6996	2420-0007	28480	NUT,PLAIN,HEXAGON	EA	

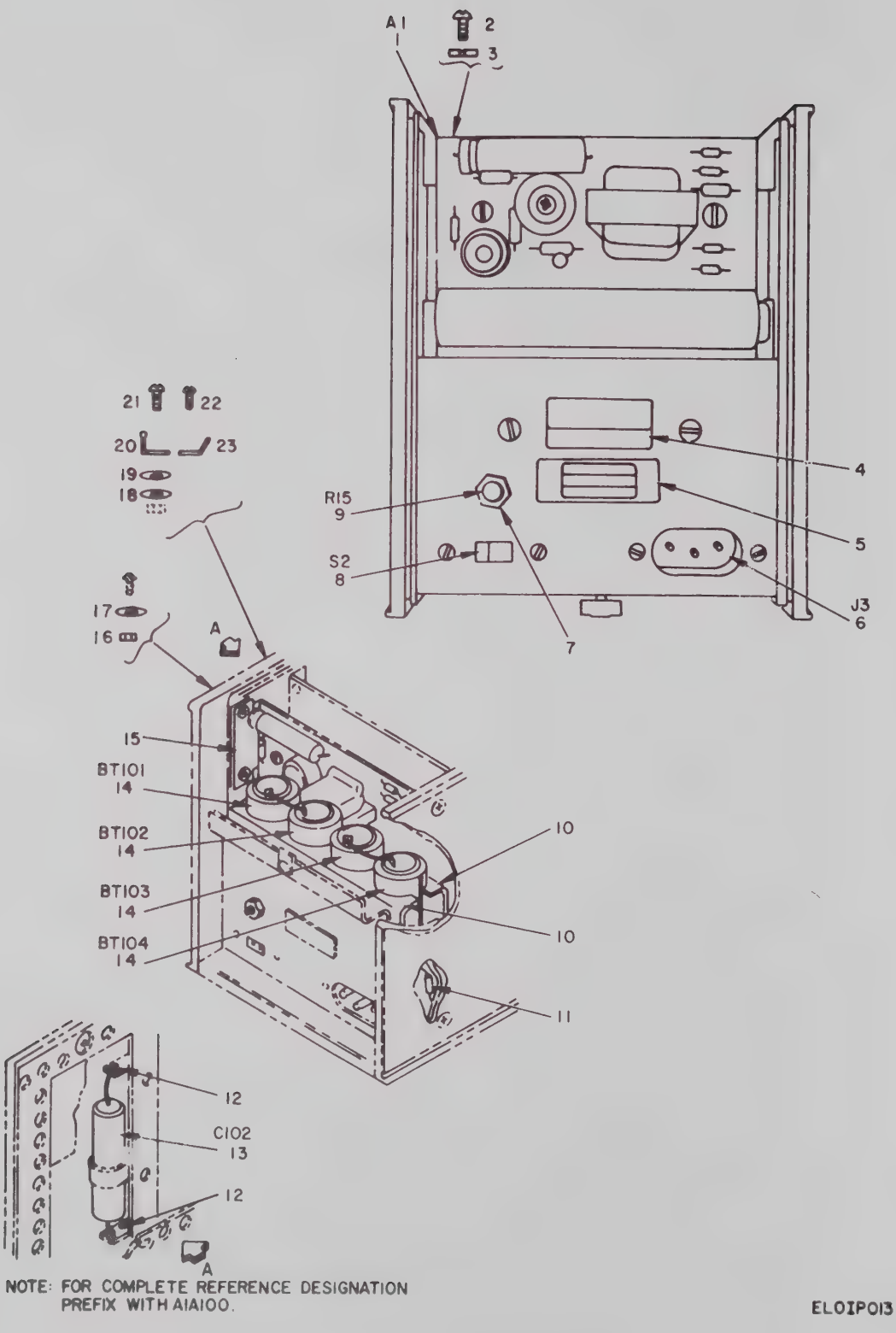
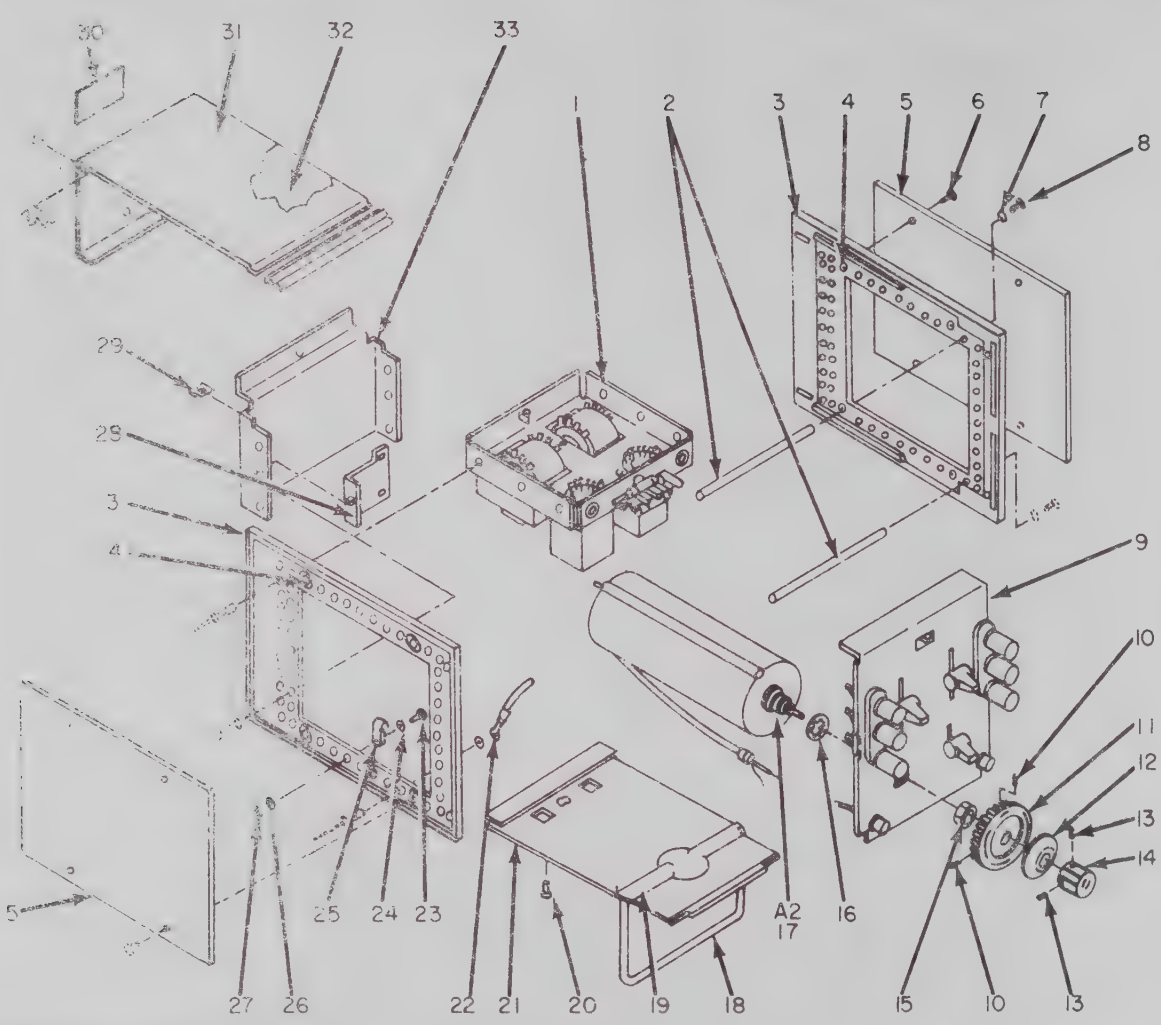


Figure 7. Power Supply Assembly A1A100.

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 0202 POWER SUPPLY ASSEMBLY A1A100		
7	10	XDOZZ	6135-00-851-0857	5040-0615	28480	RETAINER,BATTERY	EA	2
7	14	PAOZZ	6140-00-794-9959	1420-0015	28480	BATTERY,NICKEL CADIMUM	EA	4



NOTE: FOR COMPLETE REFERENCE DESIGNATION PREFIX WITH A2.

EL01P015

Figure 8. Attenuator, Impedance Matching CN-947/USM-181 or CN-947A/USM-181 A2.

(1) ILLUSTRATION (a) FIG NO	(1) ILLUSTRATION (b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 03 ATTENUATOR, IMPEDANCE MATCHING		
						CN-947/USM-181 OR CN-947A/USM-181 A2		
8	10	PAOZZ	5305-00-719-5330	MS51963-21	96906	SETSCREW	EA	2
8	11	PAOZZ	5355-00-907-3461	0370-0130	28480	KNOB	EA	1
8	12	PAOZZ	5355-00-907-3462	353A74A	28480	DIAL, SCALE	EA	1
8	13	PAOZZ	5305-00-719-5342	MS51963-34	96906	SETSCREW	EA	2
8	14	PAOZZ	5355-00-085-7710	0370-0073	28480	KNOB	EA	1

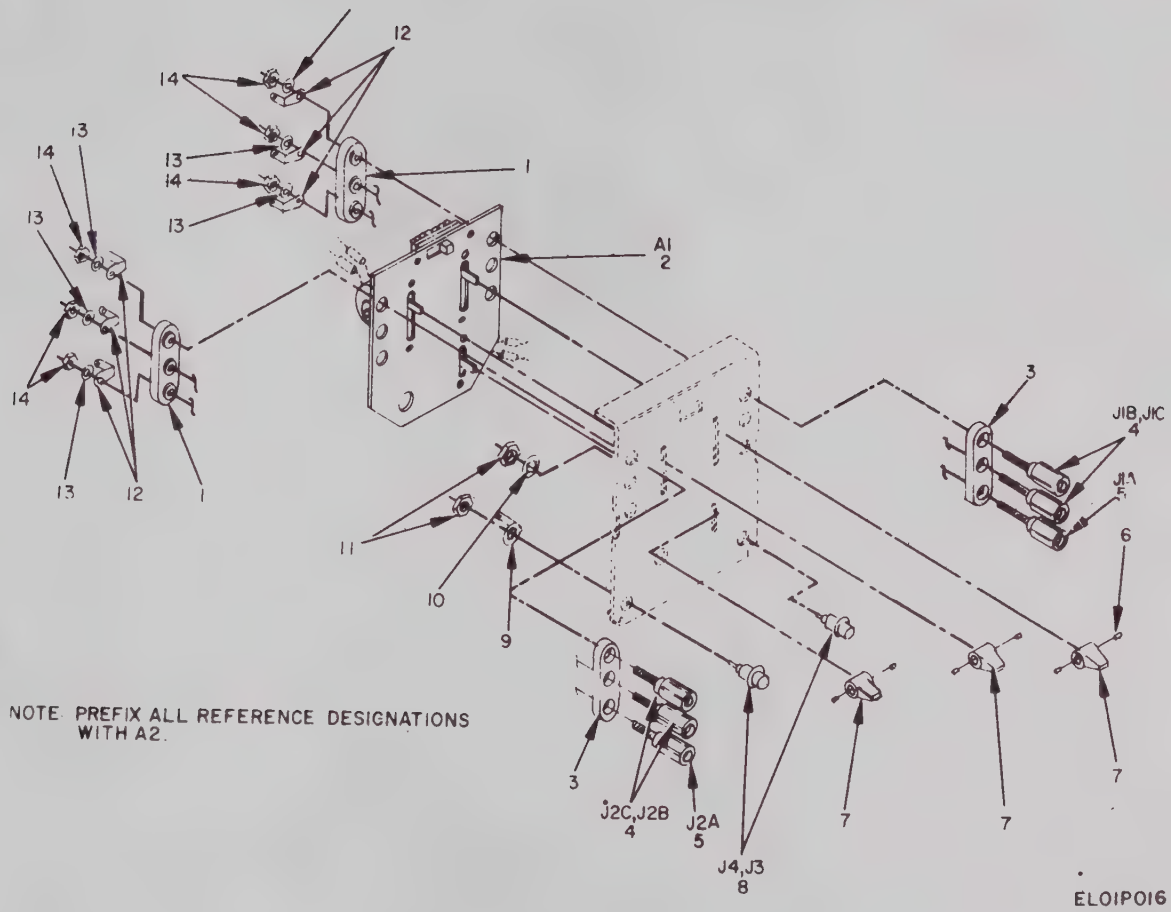


Figure 9. Attenuator, Impedance Matching CN-947/USM-181 or CN-947A/USM-181 A2, Front Panel Assembly, Exploded View.

(1) ILLUSTRATION (a) FIG NO	(1) ILLUSTRATION (b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
9	6	PA[illegible]	5305-00-719-5330	MS51963-21	96906	SETSCREW	EA	8
9	7	PA022	5355-00-907-3466	0370-0046	28480	KNOB	EA	3

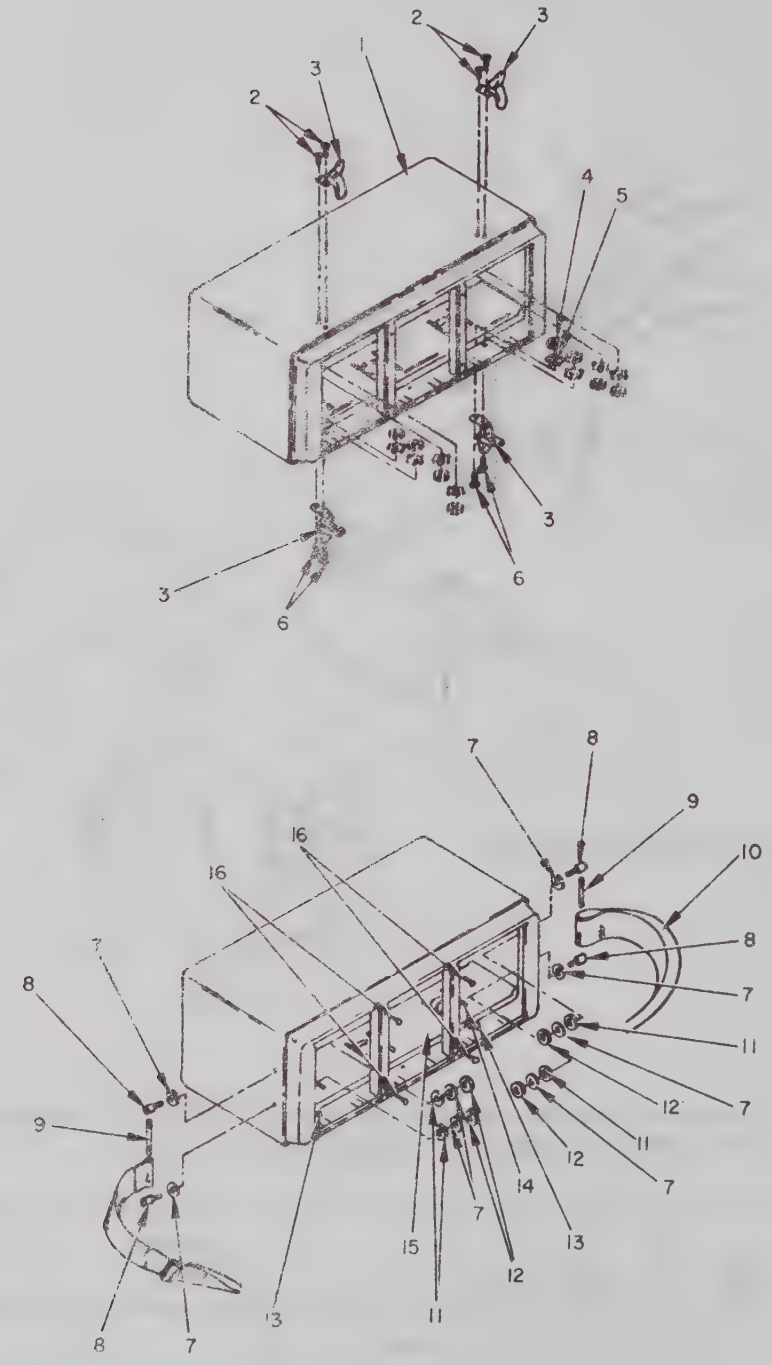


Figure 10. Case, Test Set CY-4071/USM-181 A4.

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 04 CASE,TEST SET CY-4071/USM-181 A4			
10	7	PAOZZ	5310-933-8119	MS35338-137	96906	WASHER,LOCK	A09	EA	8
10	7	XDOZZ		2190-0018	28480	WASHER,LOCK	B&M	EA	4
10	8	XDOZZ		PO24819-32	77386	POST,STRAP LOOP		EA	4
10	9	XDOZZ		11046-23701	28480	PIN,STRAIGHT,HEADLESS		EA	2
10	10	XDOZZ		1530-0005	28480	STRAP,CARRYING		EA	1
10	11	PAOZZ	5310-00-880-5976	MS15795-806	96906	WASHER,FLAT	A09	EA	4
10	11	PAOZZ	5310-00-802-0660	3050-0066	28480	WASHER,FLAT	B&M	EA	4
10	12	PAOZZ	5310-00-934-9757	MS35649-282	96906	NUT,PLAIN,HEXAGON	A09	EA	4
10		XDOZZ		2420-0002	28480	NUT,PLAIN,HEXAGON	B&M	EA	4

STOCK NUMBER	FIGURE NO.	ITEM NO.
5305-00-059-4550	2	7
5305-00-059-4550	6	7
5305-00-059-4553	6	9
5355-00-085-7710	6	14
5920-00-142-4837	4	6
5305-00-174-1167	6	7
5310-00-472-6996	6	10
5305-00-719-5330	5	15
5305-00-719-5330	7	6
5305-00-719-5330	8	10
5305-00-719-5336	3	6
5305-00-719-5336	5	16
5305-00-719-5342	3	7
5305-00-719-5342	6	13
5355-00-760-3248	3	8
5355-00-760-3248	5	21
6625-00-763-2390	1	3
5355-00-764-2927	5	19
5995-00-764-3646	1	4
6140-00-794-9959	7	14
5310-00-802-0660	10	11
5355-00-809-9329	5	14
6135-00-851-0857	4	1
6135-00-851-0857	7	10
5310-00-880-5976	10	11
5355-00-907-3460	7	7
5355-00-907-3461	6	11
5355-00-907-3462	8	12
5310-00-933-8119	10	7
5310-00-934-9757	10	12
5310-00-934-9761	4	5
5305-00-957-6265	2	3
5305-00-957-6265	6	5
6625-00-965-1532	1	6
6625-00-965-1533	1	1
6625-00-965-1534	1	2
5355-00-965-4881	5	20
5995-00-985-8160	1	4
5995-00-995-9822	1	7

PART NUMBER	FSCM	FIG. NO.	ITEM NO.
AN507-632-5	88044	6	7
CG2723U	80058	1	4
CG3566U	80058	1	4
CN947AUSM181	80058	1	3
CN947USM181	80058	1	3
CX903U	80058	1	7
CX9031U	80058	1	8
CY4071USM181	80058	1	1
C8020-632-24B	78553	2	8
ME260AU	80058	1	2
ME260U	80058	1	2
MS15795-806	96906	10	11
MS35190-234	96906	2	3
MS35190-234	96906	6	5
MS35190-235	96906	2	7
MS35190-235	96906	6	7
MS35190-238	96906	6	9
MS35338-137	96906	10	7
MS35649-264	96906	4	5
MS35649-282	96906	10	12
MS51963-21	96906	5	15
MS51963-21	96906	9	6
MS51963-21	96906	8	10
MS51963-33	96906	3	6
MS51963-33	96906	5	16
MS51963-34	96906	3	7
MS51963-34	96906	8	13
PC24819-32	77386	10	8
SG543AU	80058	1	6
SG543U	80058	1	6
0370-0046	28480	9	7
0370-0062	28480	5	20
0370-0073	28480	8	14
0370-0084	28480	5	14
0370-0087	28480	3	8
0370-0087	28480	5	21
0370-0130	28480	8	11
11046-23701	28480	10	9
1420-0015	28480	7	14
1530-0005	28480	10	10
204B2B	28480	6	8
204B40B	28480	5	19
2190-0018	28480	10	7
2370-0010	28480	4	2
2370-0012	28480	6	5
2420-0002	28480	10	12
2420-0007	28480	6	10
3050-0066	28480	10	11
312-062	75915	4	6
353A74A	28480	8	12
4320-0011	28480	2	9
5B225-6V	28480	4	3
5000-0702	28480	2	2
5000-0702	28480	6	4
5000-0710	28480	2	6
5040-0615	28480	4	1
5040-0615	28480	7	10
5060-0705	28480	2	1
5060-0705	28480	6	6

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Stateside, N.J. 07703

DATE 10 July 1975

PUBLICATION NUMBER	DATE	TITLE
TM 11-5840-340-12	23 Jan 74	Radar Set AN/MPQ-76

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PAGE NO.	PARAGRAPH	FIGURE NO.	TABLE NO.	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
2-25	2-28			Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°. REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.
3-10	3-3		3-1	Item 5, Function column. Change "2 db" to "3db." REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.
5-6	5-8			Add new step f.1 to read, "Replace cover plate removed in step e.1, above." REASON: To replace the cover plate.
		F03		Zone C 3. On J1-2, change "+24 VDC to "+5 VDC." REASON: This is the output line of the 5 VDC power supply. + 24 VDC is the input voltage.

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
SSG I. M. DeSpiritof 999-1776

SIGN HERE: SSG I. M. DeSpiritof

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Chief of Staff

Official:

PAUL T. SMITH
Major General, United States Army
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JUSMAG, Korea (1)
Sig FLDMS (1)
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  29-136 (1)

ARNG & USAR: None

For explanation of abbreviations used, see AR 310-50.

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